

# Vaisala Maritime Lightning Solutions

/ IMPROVE YOUR OPERATIONAL SAFETY AND EFFICIENCY



**VAISALA**

# The Impact of Thunderstorms & Lightning

## Are you at a high risk of being affected by lightning?

Accidents caused by lightning can be devastating, and therefore, monitoring the weather is critical for keeping personnel safe and operations running at an optimal level.

Today, advanced weather monitoring and warning systems provide critical data for planning, evaluating risks, protecting life and property, and improving efficiency. These systems provide lightning information even when no radar is present, allowing you to understand weather conditions and take action.



## Why Do I Need Lightning Data?

Lightning is an indication of extreme weather and poses an operational safety hazard for your business, and it puts you at risk for loss of revenue during downtime. A lightning detection system can help minimize downtime, but only if there are no false alarms. Terminal and platform operations are at risk of losing thousands of dollars per minute, or more, if operations are stopped!

Implementing a lightning warning system that supplies reliable data results in a successful program, with information you and your employees can trust. You can't afford to stop operations when lightning is not a real threat.

### Benefits of a Lightning Warning System:

- Minimize operational downtime
- Maintain route schedules and loading/offloading
- Plan your operations ahead of time
- Develop a safety plan for storm situations
- Communicate and show your corporate safety values



# Vaisala Lightning Solutions

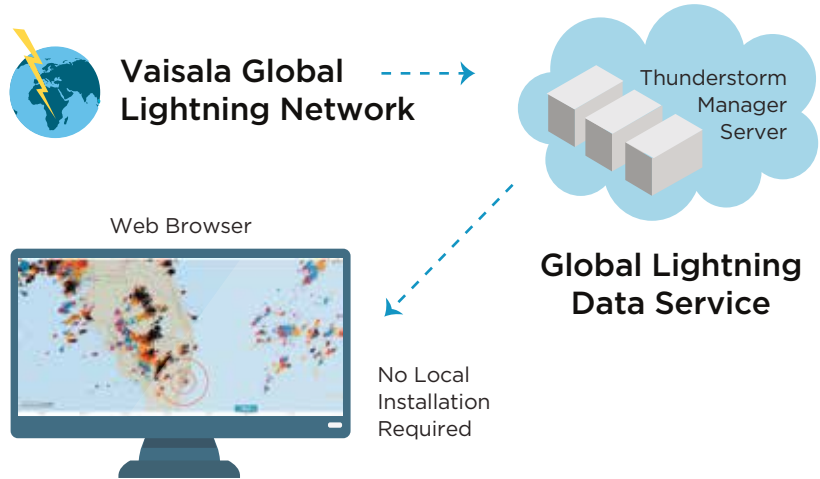
*Vaisala offers the most accurate and trusted lightning detection information in the world, whether you choose a network-based thunderstorm monitoring and alerting system, or a lightning sensor(s) to detect lightning and provide alerts.*

## Web-based Lightning Solutions

Vaisala Thunderstorm Manager is a web-based display used to track and alert about approaching storms in real time.

It provides:

- Highest possible lightning detection performance
- Three levels of alerts, sent to wherever you are
- Global lightning coverage, even over oceans
- No local equipment removes worry about installation restrictions and interferences from the environment



### Thunderstorm Manager

#### ALERT APPLICATIONS



#### LOCALLY TRIGGERED ALARMS

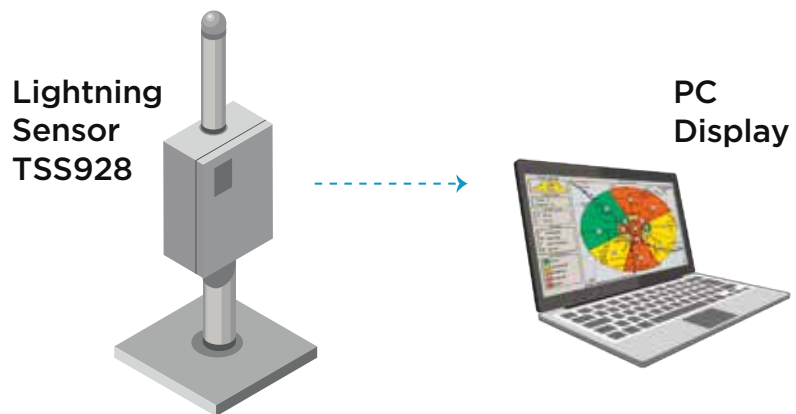


## Single Point Sensors

A single point lightning sensor is used for local monitoring, where equipment is installed at your location.

Vaisala's TSS928 Single Point Lightning Sensor provides:

- Alerts and warnings, including audible and visual alarms
- Superior detection accuracy with the lowest false alarm rate among single point sensors
- Independent observation system, no Internet or other remote access needed
- Ability to integrate into maritime weather observation systems



#### ALERT APPLICATIONS



#### LOCALLY TRIGGERED ALARMS



# A Trusted Partner in Maritime Weather

*Vaisala's lightning solutions are built on over 80 years of experience in weather measurement technology.*

## Confidence Starts with Experience

**GLOBAL**  
Vaisala established the first global lightning network for customers to receive lightning data anywhere, at any time in the world.

**90%**  
of meteorology offices in the world choose Vaisala lightning data to improve the safety of their communities during severe storms.

**TOTAL LIGHTNING**  
Vaisala detects and properly classifies both cloud and cloud-to-ground lightning, providing comprehensive information for the specified area.


**OVER 30 YEARS**  
Vaisala's lightning information services are based on over 30 years of experience in operating lightning networks and providing lightning data services from our data centers.

**RESOURCES**  
Vaisala provides the most educational resources with webinars, users' groups meetings, and we host a lightning conference.

**OVER 1,000**  
scientific references on Vaisala lightning detection technology.

**EXPERIENCE**  
Vaisala has operational experienced meteorologists and numerous PhDs in meteorology and lightning physics.

 There are approximately **24,000** lightning deaths globally each year.

 Cost estimates for interruption of offloading are **\$20,000** per hour for carriers/tankers.

 There are over **2 BILLION** lightning strikes around the world **EVERY YEAR.**

 **KNOW** your lightning risk.

 **IMPROVE** productivity while providing safe work conditions.

 **PROTECT** people and assets with better planning.

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